

# Charlotte Elster

## List of Publications by Year in descending order

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78  
papers

3,812  
citations

201575

27  
h-index

118793

62  
g-index

78  
all docs

78  
docs citations

78  
times ranked

1142  
citing authors

#	ARTICLE	IF	CITATIONS
1	The bonn meson-exchange model for the nucleon-nucleon interaction. Physics Reports, 1987, 149, 1-89.	10.3	2,228
2	Resonance saturation for four-nucleon operators. Physical Review C, 2002, 65, .	1.1	104
3	Full-folding optical potentials in elastic proton-nucleus scattering. Physical Review C, 1990, 41, 814-827.	1.1	82
4	$^6\text{He}$ nucleus in halo effective field theory. Physical Review C, 2014, 90, .	1.1	62
5	Three-body scattering at intermediate energies. Physical Review C, 2005, 72, .	1.1	57
6	Nucleon-nucleon scattering in a three dimensional approach. Physical Review C, 2000, 62, .	1.1	54
7	Three-Body Bound-State Calculations Without Angular-Momentum Decomposition. Few-Body Systems, 1999, 27, 83-105.	0.7	50
8	Inadequacies of the Nonrelativistic 3N Hamiltonian in Describing the $n+d$ Total Cross Section. Physical Review Letters, 1998, 81, 57-60.	2.9	48
9	Subtractive renormalization of the NN interaction in chiral effective theory up to next-to-next-to-leading order: Swaves. Physical Review C, 2009, 80, .	1.1	46
10	Extension of the Bonn meson exchange NN potential above pion production threshold: Role of the delta isobar. Physical Review C, 1988, 38, 1828-1842.	1.1	38
11	White paper: from bound states to the continuum. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 123001.	1.4	38
12	Momentum-space treatment of Coulomb distortions in a multiple-scattering expansion. Physical Review C, 1991, 44, 1569-1580.	1.1	36
13	Lorentz boosted NN potential for few-body systems: Application to the three-nucleon bound state. Physical Review C, 2002, 66, .	1.1	36
14	<i>Ab initio</i> folding potentials for nucleon-nucleus scattering based on no-core shell-model one-body densities. Physical Review C, 2019, 99, .	1.1	36
15	A new way to perform partial-wave decompositions of few-nucleon forces. European Physical Journal A, 2010, 43, 241-250.	1.0	35
16	Two-nucleon systems in three dimensions. Physical Review C, 2010, 81, .	1.1	35
17	Three-Body Scattering Below Breakup Threshold: An Approach Without Using Partial Waves. Few-Body Systems, 2000, 28, 15-34.	0.7	34
18	Extension of the Bonn meson exchange NN potential above pion production threshold: Nucleon renormalization and unitarity. Physical Review C, 1988, 37, 1647-1655.	1.1	33

#	ARTICLE	IF	CITATIONS
19	Modern NN force predictions for the total nd cross section up to 300 MeV. <i>Physical Review C</i> , 1999, 59, 3035-3046.	1.1	33
20	Relativistic effects in exclusive pd breakup scattering at intermediate energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 660, 345-349.	1.5	33
21	Poincaré invariant three-body scattering at intermediate energies. <i>Physical Review C</i> , 2008, 78, .	1.1	33
22	Propagator modifications in elastic nucleon-nucleus scattering within the spectator expansion. <i>Physical Review C</i> , 1995, 52, 1992-2003.	1.1	31
23	Full-folding optical potentials for elastic nucleon-nucleus scattering based on realistic densities. <i>Physical Review C</i> , 1997, 56, 2080-2092.	1.1	31
24	Microscopic formulation of medium contributions to the first-order optical potential. <i>Physical Review C</i> , 1993, 48, 2956-2966.	1.1	29
25	Sensitivities of the proton-nucleus elastic scattering observables of $^6\text{He}$ and $^8\text{He}$ at intermediate energies. <i>Physical Review C</i> , 2000, 61, .	1.1	29
26	New forms of deuteron equations and wave function representations. <i>Physical Review C</i> , 2001, 63, .	1.1	28
27	First order relativistic three-body scattering. <i>Physical Review C</i> , 2007, 76, .	1.1	27
28	Model Study of Three-Body Forces in the Three-Body Bound State. <i>Few-Body Systems</i> , 2003, 33, 241-258.	0.7	25
29	Ndbreakup process in leading order in a three-dimensional approach. <i>Physical Review C</i> , 2003, 68, .	1.1	25
30	Mini Review of Poincaré Invariant Quantum Theory. <i>Few-Body Systems</i> , 2011, 49, 129-147.	0.7	25
31	<i>Ab initio</i> leading order effective potentials for elastic nucleon-nucleus scattering. <i>Physical Review C</i> , 2020, 102, .	1.1	24
32	Application of multiple scattering theory to lower-energy elastic nucleon-nucleus scattering. <i>Physical Review C</i> , 1995, 51, 1418-1424.	1.1	23
33	$^3\text{N}$ scattering in a three-dimensional operator formulation. <i>European Physical Journal A</i> , 2010, 43, 339-350.	1.0	22
34	White paper on nuclear astrophysics and low-energy nuclear physics, Part 2: Low-energy nuclear physics. <i>Progress in Particle and Nuclear Physics</i> , 2017, 94, 68-124.	5.6	20
35	Separable representation of phenomenological optical potentials of Woods-Saxon type. <i>Physical Review C</i> , 2013, 88, .	1.1	19
36	A New Approach to the 3D Faddeev Equation for Three-body Scattering. <i>Few-Body Systems</i> , 2009, 45, 1-10.	0.7	18



#	ARTICLE	IF	CITATIONS
55	Reexamining surface-integral formulations for one-nucleon transfers to bound and resonance states. Physical Review C, 2014, 89, .	1.1	7
56	Few-body universality in the deuteron- $\hat{I}\pm$ system. Physical Review C, 2018, 98, .	1.1	6
57	Poincaré Invariant Three-Body Scattering. Few-Body Systems, 2009, 45, 157-160.	0.7	5
58	Coulomb wave functions in momentum space. Computer Physics Communications, 2015, 187, 195-203.	3.0	5
59	Separable representation of energy-dependent optical potentials. Physical Review C, 2016, 93, .	1.1	5
60	Recent Developments of a Three-dimensional Description of the NN System. Few-Body Systems, 2011, 50, 279-281.	0.7	4
61	Separable representation of multichannel nucleon-nucleus optical potentials. Physical Review C, 2017, 95, .	1.1	4
62	Nuclear spin features relevant to ab initio nucleon-nucleus elastic scattering. Physical Review C, 2021, 103, .	1.1	4
63	Three-body scattering in Poincaré-invariant quantum mechanics. Few-Body Systems, 2008, 44, 287-289.	0.7	3
64	Microscopic Optical Potentials for Helium-6 Scattering off Protons. Few-Body Systems, 2013, 54, 1399-1403.	0.7	3
65	Pseudovector vs pseudoscalar coupling in one-boson exchange NN potentials. Physical Review C, 2002, 66, .	1.1	2
66	Three Dimensional SRG Evolution of the NN Interactions Using Picard Iteration. EPJ Web of Conferences, 2016, 113, 08008.	0.1	2
67	New developments in reaction theory: preparing for the FRIB era. EPJ Web of Conferences, 2018, 178, 03001.	0.1	2
68	Three-body scattering without partial waves. AIP Conference Proceedings, 2005, , .	0.3	1
69	Charged- and neutral-pion production in the S-matrix approach. Physical Review C, 2006, 74, .	1.1	1
70	Nucleon-nucleon interaction at intermediate energies and related nuclear processes. Nuclear Physics A, 1990, 508, 197-207.	0.6	0
71	Panel Session on the Future of Few-Body Physics. Few-Body Systems, 2014, 55, 683-686.	0.7	0
72	Separable Forces for (d,p) Reactions in Momentum Space. EPJ Web of Conferences, 2016, 113, 08010.	0.1	0

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73	Separable Potentials for (d,p) Reaction Calculations. Journal of Physics: Conference Series, 2016, 724, 012014.	0.3	0
74	Towards a Faddeev-AGS description of (d,p) reactions with heavy nuclei: Regularizing integrals with Coulomb functions.. EPJ Web of Conferences, 2016, 113, 03016.	0.1	0
75	Three-Nucleon Scattering at Intermediate Energies. , 2007, , .		0
76	Ab initio Folding Potentials for Proton-Nucleus Scattering with NCSM Nonlocal One-Body Densities. Springer Proceedings in Physics, 2020, , 151-155.	0.1	0
77	Three-Body Approach to Deuteron-Alpha Scattering Using Realistic Forces in a Separable or Non-separable Representation. Springer Proceedings in Physics, 2020, , 267-271.	0.1	0
78	Nonlocal Structure of the Leading Order ab initio Effective Potentials for Proton Elastic Scattering from Light Nuclei. Few-Body Systems, 2022, 63, 1.	0.7	0